

ABSTRACT

An alkyl silane compound represented by the general formula RSi(OL)_3 (here, R is an alkyl group, L is H, Si or a group capable of easily changing the OL group into the OH group in a solution or a suspension), a silicon compound represented by the general formula Si(OM)_4 (here, M is H, Si or a group capable of easily changing the OM group into the OH group in a solution or a suspension), and water are reacted in a solvent or a dispersion medium. A thermoplastic layered alkyl siloxane with the composition formula represented by the general formula $(\text{RSi}_{1+x}\text{O}_{1.5+2x+0.5z}\text{L}_z)_m$ (here, R is an alkyl group, L is H, Si or a group capable of easily changing the OL group into the OH group in a solution or a suspension, and $0.5 \leq x \leq 2$, $2 \leq m \leq 200$, $0 \leq z$), which is a thermoplastic inorganic/organic layered composite having good shaping property and dispersing property, capable of transitioning at various temperatures including the vicinity of the room temperature can be provided.